

REMARKS/ARGUMENTS

The claimed method, as amended, invokes a WAP push using a three-step approach by the network and the push proxy gateway. The Examiner is referred to the marked-up version of claim 1.

1. A method for initiating a Wireless Access Protocol (WAP) push session to push information from a push proxy gateway to a mobile station in a wireless communication network, the method comprising:

in response to a need to push information from a push proxy gateway to a mobile station, [transmitting an initiation request to the mobile station by] establishing a connection-oriented signalling channel between the network and the mobile station [and];

using said connection-oriented signalling channel to transmit [said] a session initiation request, the session initiation request being such that the mobile station activates a bearer for establishing a push session in response to the session initiation request towards the push proxy gateway;

the push proxy gateway [to permit the push proxy gateway to push] pushing information to the mobile station using the activated bearer.

It should be readily apparent that given that the connection-oriented signalling channel is established first for the purpose of transmitting the SIR, and then an activated bearer is established and used to push the information, the connection-oriented signalling channel and the activated bearer are not the same entity.

Lewontin teaches both “connectionless” and “connection-oriented” mode of push – see paragraph [37]. What is being discussed is the push of content to the mobile station, analogous to the so-called “information” of claim 1.

It is true that Lewontin teaches the establishment of a connection-oriented channel for transmitting a SOAP request, via HTTP POST (Fig. 3, element 314), or via WSP confirmed push (Fig. 4, element 414), and that the connection-oriented channel is established for that purpose. However, a SOAP request is not a session initiation request. “SOAP is a markup language for message encapsulation and is typically used to transmit messages that invoke remote procedure calls, return the results from such invocation, or to transmit documents”. See Lewontin paragraph [6]. The SOAP request is also referred to as “data” – “The Push OTA device allows clients to exchange data with wireless devices via an intermediary server called the Push Proxy Gateway (PPG) 210” – see paragraph [40]. Thus, it is respectfully submitted that the SOAP request is analogous to the so-called “information” of claim 1. Claim 1 requires this be transmitted on a bearer between the mobile device and the PPG.

Lewontin does require sending a session initiation request, apart from the SOAP request. This is to request setting up the connection-oriented channel for the purpose of sending the SOAP request. See for example, step 310 in Fig. 3, and step 410 in Fig. 4. The only reference in Lewontin to how this SIR is transmitted is found in paragraph [49]:

“After receiving the SOAP request 308, the PPG 30 sends a session initiation request (SIR) 310 to the mobile terminal 302 via a connectionless push.”

Thus, it is respectfully submitted that, contrary to the position taken by the examiner in both the Final action and the Advisory action, Lewontin does not disclose establishing a connection-oriented signalling channel, but rather discloses a connection-oriented channel for transmitting data.

Whether or not the Examiner maintains his position that the channel established in Lewontin is a “connection-oriented signalling channel”, it should be apparent that the connection-oriented channel that is established is NOT used to transmit the SIR as required by applicants claim 1.

For greater certainty, the following comparison between claim 1 and Lewontin can be made, where some simplification of language has been made:

claim 1:

- establish first connection oriented channel for sending a SIR, and send the SIR using the first connection oriented channel;
- setup bearer in response to SIR;
- push the data to the mobile device using the bearer.

Lewontin:

- send SIR via connectionless push;
- set connection-oriented channel in response to SIR;
- push the data to the mobile device using connection-oriented channel.

The Examiner is mapping the second step of Lewontin with the first step of claim 1, but it should be apparent that this is wrong as Lewontin still needs to send the SIR, and that is the step that corresponds with step 1 of claim 1, but done using connectionless push instead of by establishment of a connection-oriented channel.

Applicant discussed OTAHTTP in some detail in the previous response. The reference makes it clear that an SIR can be sent on a connection-oriented channel if such a channel already exists. The connection-oriented channel is not established for the purpose of sending the SIR.

Applicant is of the position that the wording of the claim as it previously stood, namely “transmitting an initiation request to the mobile station by establishing a connection-oriented signalling channel between...” required a causality between the need to transmit the request, and the subsequent establishment of the connection-oriented signalling channel. However, in the interest of expediting prosecution, claim 1 has been amended to further clarify this. The claim now recites “in response to ...” to make it clear that the connection-oriented signalling channel is

set up after the need to send the SIR arises.

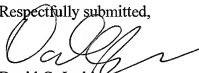
On this basis, it is respectfully submitted that neither of the references teach the claimed limitation:

in response to a need to push information from a push proxy gateway to a mobile station, establishing a connection-oriented signalling channel between the network and the mobile station.

The Examiner is respectfully requested to withdraw the obviousness rejection of claim 1.

In view of the foregoing, early favorable consideration of this application is earnestly solicited.

Respectfully submitted,



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Date: October 17, 2008

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